

AMENDMENTS TO THE ABSTRACT

Please cancel the Abstract section of the specification and replace with the following:

A digital certificate issuing system with intrusion tolerance ability and the issuing method thereof are disclosed. The system comprises an offline secret key distributor, at least one online task distributor, k online secret share calculators and m online secret share combiners. And the method includes: splitting a private key into multiple first sub-secret-keys and multiple second sub-secret-keys, wherein the private key is constructed by one second sub-secret-key and t first sub-secret-keys, the second sub-secret-key corresponds to the t first sub-secret-keys according to an equation combination representation, and the number t is a positive integer; calculating t first calculation results according to the certificate to be signed and the t first sub-secret-keys in the multiple first sub-secret-keys upon receiving a certificate to be signed; obtaining the second sub-secret-key corresponding to the t first sub-secret-keys according to the equation combination representation; calculating a second calculation result according to the second sub-secret-key obtained and the certificate to be signed; generating a digital signature according to the t first calculation results and the second calculation result; generating a digital certificate according to the digital signature and contents of the certificate to be signed.